



PTO 1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. EOS-010 (5066-4010)	SERIAL NO. 09/032,450
LIST OF PRIOR ART CITED BY APPLICANT <div style="text-align: center; font-size: 2em;">S</div>		APPLICANT GUTKOWICZ-KRUSIN ET AL.	
		FILING DATE February 27, 1998	GROUP 2721 2723

U.S. PATENT DOCUMENTS

Examiner Initial		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MD	AA	5 7 4 9 8 3 0	5/1998	Kaneko et al.	600	160	10/94
MD	AB	5 7 0 1 9 0 2	12/1997	Vari et al.	600	473	12/94
MD	AD	5 6 9 9 7 9 8	12/1997	Hochman et al.	600	420	06/95
MD	AD	5 5 9 0 6 6 0	1/1997	MacAulay et al.	600	478	03/94
MD	AE	5 5 2 8 7 0 3	6/1996	Lee	382	257	
MD	AF	5 5 1 5 4 4 9	5/1996	Tsuruoka et al.	382	128	
MD	AG	5 4 2 1 3 3 7	6/1995	Richards-Kortum et al.	600	477	
MD	AH	5 4 0 8 9 9 4	4/1995	Salb	600	317	
MD	AI	5 3 4 9 4 9 4	11/1994	Alfano et al.	600	477	
MD	AJ	5 3 6 3 8 5 4	11/1994	Martens et al.	600	477	
MD	AK	5 2 4 1 4 6 8	8/1993	Kenet	600	300	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No
MD	AL	0 6 5 0 6 9 4	5/1995	Europe	A61B	5/00	X
MD	AM	0 3 5 9 4 3 3	3/1990	Europe	A61B	5/05	X
	AN						
	AO						
	AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MD	AR	"Border irregularity: atypical moles versus melanoma", C.L. Huang et al., Eur J Dermatol, Vol. 6, pp. 270-273, June 1996
MD	AS	"In vivo Spectrophotometric Evaluation of Neoplastic and Non-Neoplastic Skin Pigmented Lesions. III. CCD Camera-Based Reflectance Imaging", R. Marchesini et al., Photochemistry and Photobiology, Vol. 62, No. 1, pp. 151-154; 1995
MD	AT	"The Morphologic Criteria of the Pseudopod in Surface Microscopy", S.W. Menzies, et al., Arch Dermatol, Vol. 131, pp. 436-440, April 1995

EXAMINER <i>Deborah Pasternak</i>	DATE CONSIDERED 9/25/99	EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
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LIST OF PRIOR ART CITED BY APPLICANT L		APPLICANT GUTKOWICZ-KRUSIN ET AL.	
		FILING DATE February 27, 1998	GROUP <u>2212 72.3</u>

U.S. PATENT DOCUMENTS

Examiner Initial		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MD</i>	AA	5 1 7 4 2 9 7	12/1992	<i>D</i> Maikuzono	600	476	
<i>MD</i>	AB	5 0 3 6 8 5 3	8/1991	Jeffcoat et al.	600	342	
<i>MD</i>	AC	5 0 0 3 9 7 7	4/1991	Suzuki et al.	600	317	
<i>MD</i>	AD	4 9 5 7 1 1 4	9/1990	Zeng et al.	600	476	
<i>MD</i>	AE	4 9 3 0 5 1 6	6/1990	Alfano et al.	600	477	
<i>MD</i>	AF	4 8 9 4 5 4 7	1/1990	Leffell et al.	250	461.2	
<i>MD</i>	AG	4 8 2 1 1 1 7	4/1989	Sekiguchi	348	68	
<i>MD</i>	AH	4 7 7 3 0 9 7	9/1988	Suzaki et al.	382	128	
<i>MD</i>	AI	4 7 6 8 5 1 3	9/1988	Suzuki et al.	600	476	
<i>MD</i>	AJ	4 5 5 6 0 5 7	12/1985	Hiruma et al.	600	476	
<i>MD</i>	AK	4 5 0 5 5 8 3	3/1985	Konomi	356	73	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>MD</i>	AR	"A rudimentary system for automatic discrimination among basic skin lesions on the basis of color analysis of video images", H. Takiwaki et al., Journal of the American Academy of Dermatology, Vol. 32, No. 4, pp. 600-604, April 1995
<i>MD</i>	AS	"Topodermatographic Image Analysis for Melanoma Screening and the Quantitative Assessment of Tumor Dimension Parameters of the Skin", H. Voigt et al., CANCER, Vol. 75, No. 4, February 15, 1995
<i>MD</i>	AT	"Application of an artificial neural network in epiluminescence microscopy pattern analysis of pigmented skin lesions: a pilot study", M. Binder et al., British Journal of Dermatology 130: pp. 460-465; 1994

EXAMINER

Richard Pasterni

DATE CONSIDERED

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LIST OF PRIOR ART CITED BY APPLICANT 7		APPLICANT GUTKOWICZ-KRUSIN ET AL.	
		FILING DATE February 27, 1998	GROUP <u>2212723</u>

U.S. PATENT DOCUMENTS

Examiner Initial	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MD</i>												4 2 3 6 0 8 2	11/1980	Butler	250	461.1	
<i>MD</i>												4 1 7 0 9 8 7	10/1979	Anselmo et al.	600	475	
<i>MD</i>												3 3 3 5 7 1 6	8/1967	Alt et al.	-	-	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>MD</i>	AR	"Computer image analysis in the diagnosis of melanoma", A. Greene et al., Journal of the American Academy of Dermatology; Vol. 31, No. 6, pp. 958-964, 1994
<i>MD</i>	AS	"Computerized Digital Image Analysis: An Aid for Melanoma Diagnosis", A.J. Sober et al., The Journal of Dermatology, Vol. 21, pp. 885-890, 1994
<i>MD</i>	AT	"Neural Network Diagnosis of Malignant Melanoma From Color Images", F. Ercal et al., IEEE Transactions of Biomedical Engineering, Vol. 41, No. 9, pp. 837-845, September 1994

EXAMINER <i>Richard Dastum</i>	DATE CONSIDERED <i>9/25/99</i>
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LIST OF PRIOR ART CITED BY APPLICANT		APPLICANT GUTKOWICZ-KRUSIN ET AL.	
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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	AL						
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WD	AR	"The ABCD rule of dermatology", F. Nachbar et al., Journal of the American Academy of Dermatology, Vol. 3, No. 4, pp. 551-559, April 1994
WD	AS	"Evaluation of different image acquisition techniques for a computer vision system in the diagnosis of malignant melanoma", T. Schindewolf et al., Journal of the American Academy of Dermatology, Vol. 31, No. 1, pp. 33-41, July 1994
WD	AT	"Detection of Skin Tumor Boundaries in Color Images", F. Ercal et al., IEEE Transactions of Medical imaging, Vol. 12, No. 3, pp. 624-627, September 1993

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Richard Dastine

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LIST OF PRIOR ART CITED BY APPLICANT		APPLICANT GUTKOWICZ-KRUSIN ET AL.	
		FILING DATE February 27, 1998	GROUP <u>27212723</u>






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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR		"Clinical Diagnosis of Pigmented Lesions Using Digital Epiluminescence Microscopy", R.O. Kenet et al., Arch Dermatol, Vol. 129, pp. 157-174; February 1993
	AS		"Optical properties of human dermis in vitro and in vivo", R. Graaff et al., Applied Optics, Vol. 32, No. 4, pp. 435-447, February 1, 1993
	AT		"Automatic Detection of Irregular Borders in Melanoma and Other Skin Tumors", J.E. Golston et al., Computerized Medical Imaging and Graphics, Vol. 16, No. 3, pp. 199-203, 1992

EXAMINER <i>Richard D. Patton</i>	DATE CONSIDERED <u>9/25/99</u>
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MD	AR	"Automatic Detection of Asymmetry in Skin Tumors", W.V. Stoecker et al., Computerized Medical Imaging and Graphics, Vol. 16, No. 3, pp. 191-197, 1992
MD	AS	"Results obtained by using a computerized image analysis system designed as an aid to diagnosis of cutaneous melanoma", N. Cascinelli et al., Melanoma Research, Vol. 2, pp. 163-170, 1992
MD	AT	"An Automatic Color Segmentation Algorithm with Application to Identification of Skin Tumor Borders", S.E. Umbaugh et al., Computerized Medical Imaging and Graphics, Vol. 16, No. 3, pp. 227-235, May-June 1992

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Richard D. Oster

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		APPLICANT GUTKOWICZ-KRUSIN ET AL.	
		FILING DATE February 27, 1998	GROUP 27272723

LIST OF PRIOR ART CITED BY APPLICANT

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U.S. PATENT DOCUMENTS

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

W.D.	AR	"Automatic Color Segmentation of Images with Application to Detection of Variegated Coloring in Skin Tumors", S.W. Umbaugh et al., IEEE Engineering in Medicine and Biology Magazine, December 1989, PP. 43-52
W.D.	AS	"Multispectral Imaging of Burn Wounds: A New Clinical Instrument for Evaluating Burn Depth", M.A. Afromowitz et al., IEEE Transactions on Biomedical Engineering, Vol. 35, No. 10, pp. 842-850; October 1988
W.D.	AT	"In vivo epiluminescence microscopy of pigmented skin lesions. I. Pattern analysis of pigmented skin lesions", H. Pehamberger et al., Journal of American Academy of Dermatology, Vol. 17, No. 4, pp. 571-583, October 1987

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LIST OF PRIOR ART CITED BY APPLICANT					APPLICANT GUTKOWICZ-KRUSIN ET AL.			
					FILING DATE February 27, 1998		GROUP 222 2723	
U.S. PATENT DOCUMENTS								
Examiner Initial		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
<i>MD</i>	AR	"In vivo epiluminescence microscopy of pigmented skin lesions. II. Diagnosis of small pigmented skin lesions and early detection of malignant melanoma", A. Steiner et al., Journal of the American Academy of Dermatology, Vol. 17, No. 4, pp. 584-591; October 1987						
<i>MD</i>	AS	"The Optics of Human Skin", R.R. Anderson et al., The Journal of Investigative Dermatology, Vol. 77, No. 1, pp. 13-19; July 1981						
<i>MD</i>	AT	"Melanin, a unique biological absorber", M.L. Wolbarsht, Applied Optics, Vol. 20, No. 13, pp. 2184-2186; July 1, 1981						
EXAMINER <i>Richard Dastur</i>		DATE CONSIDERED <i>9/25/99</i>						
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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	AL						
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	AN						
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	AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>MD</i>	AR	"Wavelets and Applications", S. Mallat et al., S. Verlag; Y. Meyer (ed.) NY pp. 207-284; 1992
<i>MD</i>	AS <input checked="" type="checkbox"/>	"Characterization of signals from multiscale edges", S. Mallat et al., IEEE Trans Patt and Mech Int'l; 14:710-732; 1992
<i>MD</i>	AT <input checked="" type="checkbox"/>	"Introduction to Statistical Pattern Recognition", K. Fukumaga, Academic Press, Boston, pp. 14 96, 125, 219-221; 1990

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9/25/99

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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
EOS-010SERIAL NO.
09/032,450

LIST OF PRIOR ART CITED BY APPLICANT

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GUTKOWICZ-KRUSIN ET AL.FILING DATE
February 27, 1998GROUP
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No
	AL						
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	AN						
	AO						
	AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

UD	AR	"Image Features From Phase Congruency", P. Kovési, University of Western Australia, pp. 1-30; Technical Report 9/4, Revised June 1995
	AS	
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Wehrstedt Pasternak

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9/25/99

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Sheet 1 of 2

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
5066-4010

SERIAL NO.
09/032,450

INFORMATION DISCLOSURE CITATION

APPLICANTS:
GUTKOWICZ-KRUSIN et al.

FILING DATE
February 27, 1998

GROUP ART UNIT
2721

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MD	5,799,100	8/25/98	Clarke et al.	382	132	
MD	5,784,162	7/21/98	Cabib et al.	356	346	
MD	5,740,268	4/14/98	Nishikawa et al.	382	132	
MD	5,717,791	2/10/98	Labaere et al.	382	274	
MD	5,157,461	10/20/92	Page	356	350	

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

MD	S.X. Zhao and T. Lu, "The Classification of the Depth of Burn Injury Using Hybrid Neural Network"; IEEE Conference on Engineering in Medicine & Biology Society, ISBN 7803-2475-7, Vol. 1, pp. 815-816, July, 1997
MD	I. Koren, A. Laine, F. Taylor, M. Lewis, "Interactive Wavelet Processing and Techniques Applied to Digital Mammography"; IEEE Conference Proceedings, ISBN 07-7803-3 192-3, Vol. 3, pp. 1415-1418, March 1996
MD	T. Lee, V. Ng, D. McLean, A. Coldman, R. Gallagher and J. Sale, "A Multi-Stage Segmentation Method for Images of Skin Lesions"; IEEE Conference Proceedings on Communication, Computers and Signal Processing, pp. 602-605, February 1995
EXAMINER <i>Mehrdad Dastgiri</i>	
DATE CONSIDERED 9/25/99	


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M&F REV. 06/29/95



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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)					APPLICANTS: GUTKOWICZ-KRUSIN et al.		GROUP ART UNIT 2721	
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U.S. PATENT DOCUMENTS								
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED JUN 03 1999 Group 2700 </div>		
FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
						YES NO		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)								
MD	J	B.F. Jones and P. Plassman, "An Instrument to Measure the Dimensions of Skin Wounds"; IEEE Transactions on Biomedical Engineering, Vol. 42, No. 5, pp. 464-470, May 1995						
MD		R.T.J. Bostock, E. Claridge, A.J. Harget, and P.N. Hall, "Towards A Neural Network Based System For Skin Cancer Diagnosis"; IEEE International Conference on Artificial Neural Networks, pp. 215-219, ISBN 0-85296-573-7, 1993						
MD		M. Herbin, A. Venot, J.Y. Devaux and C. Piette, "Color Quantitation Through Image Processing in Dermatology"; IEEE Transactions on Medical Imaging, Vol. 9, No. 1, pp. 262-269, September 1990						
EXAMINER <i>Michael D. Poston</i>				DATE CONSIDERED <i>9/25/99</i>				
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) 2				APPLICANT GUTKOWICZ-KRUSIN et al.			
				FILING DATE February 27, 1998		GROUP ART UNIT 2721	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MD</i>	✓	5,016,173	05-1991	Kenet et al.	382	128	



FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)							

EXAMINER <i>Richard Dastin</i>	DATE CONSIDERED 9/25/99
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